

Appl. No. : 10/827,074
Filed : April 19, 2004

AMENDMENTS TO THE CLAIMS

Please amend the Claims 10-11 and 14-15 as follows. Insertions are shown underlined while deletions are ~~struck through~~. Please cancel claims 1-9 and 20.

1-9 (canceled):

10 (currently amended): An electrochemical cell which comprises a cathode containing a proton-conducting compound as an electrode active material, an anode containing a proton-conducting compound as an electrode active material and an electrolyte containing a proton source, wherein at least one of the cathode and the anode is an electrode comprising a proton-conducting compound and an anion-exchange resin, the anion-exchange resin being a fiber with a length of 10 mm or less and a major axis of 100 μ m or less, and wherein the electrolyte is an aqueous solution containing a proton-ionizing electrolyte.

11 (currently amended): An electrochemical cell which comprises a cathode containing a proton-conducting compound as an electrode active material, an anode containing a proton-conducting compound as an electrode active material and an electrolyte containing a proton source, wherein the cathode is an electrode comprising a proton-conducting compound and an anion-exchange resin, the anion-exchange resin being a fiber with a length of 10 mm or less and a major axis of 100 μ m or less, and wherein the electrolyte is an aqueous solution containing a proton-ionizing electrolyte.

12 (original): The electrochemical cell as claimed in Claim 10, wherein the electrochemical cell is operable such that as a charge carrier, protons are exclusively involved in a redox reaction of the active materials associated with charge/discharge in both electrodes.

13 (original): The electrochemical cell as claimed in Claim 10, wherein the electrolyte is an acid-containing aqueous solution.

14 (currently amended): A storage device comprising an electrochemical cell which comprises a cathode containing a proton-conducting compound as an electrode active material, an anode containing a proton-conducting compound as an electrode active material and an electrolyte containing a proton source,

wherein at least one of the electrodes in the electrochemical cell is an electrode comprising a proton-conducting compound and an anion-exchange resin, the anion-

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exchange resin being a fiber with a length of 10 mm or less and a major axis of 100 μ m or less,

wherein the electrolyte is an aqueous solution containing a proton-ionizing electrolyte, and

wherein a plurality of the electrochemical cells are electrically connected.

15 (currently amended): A storage device comprising an electrochemical cell which comprises a cathode containing a proton-conducting compound as an electrode active material, an anode containing a proton-conducting compound as an electrode active material and an electrolyte containing a proton source,

wherein the cathode in the electrochemical cell is an electrode comprising a proton-conducting compound and an anion-exchange resin, the anion-exchange resin being a fiber with a length of 10 mm or less and a major axis of 100 μ m or less,

wherein the electrolyte is an aqueous solution containing a proton-ionizing electrolyte, and

wherein a plurality of the electrochemical cells are electrically connected.

16 (original): The storage device as claimed in Claim 14, wherein the electrochemical cells are connected in series.

17 (original): The storage device as claimed in Claim 16, wherein the electrochemical cells are stacked.

18 (original): The storage device as claimed in Claim 14, wherein the electrochemical cell is operable such that as a charge carrier, protons are exclusively involved in a redox reaction of the active materials associated with charge/discharge in both electrodes.

19 (original): The storage device as claimed in Claim 14, wherein the electrolyte in the electrochemical cell is an acid-containing aqueous solution.

20 (canceled):